Louisville Metro Air Pollution Control District

Control Device Permit Application
Form AP-300E

Electrostatic Precipitator

Mail application to:
850 Barret Avenue
Louisville, KY 40204
OR
e-mail to:
airpermits@louisvilleky.gov

(502) 574-6000
FAX: (502) 574-5137
www.louisvilleky.gov/apcd

Plant Name:	Plant ID:
Date of construction, modification, installation, or operation:	Control equipment associated with this process equipment:

Equipment Description

Manufacturer: Model:

Precipitator Type	☐ Wet, single stage ☐ Dry, single stage ☐ Wet, two-stage ☐ Dry, two-stage	Air flow rate: Pressure drop:

Gas velocity: Residence time: seconds Draft: ☐ Forced ☐ Induced

Pollutant removal efficiency: %

Describe how the removal efficiency was determined:
(If other than Manufacturer's specification, include documentation supporting the claimed efficiency)

Attach a copy of the manufacturer's spec sheets for the electrostatic precipitator with this application

List the contaminants in the waste stream that are removed by the precipitator

Contaminant	CAS # (if applicable)	Gas Stream Concentration

Describe how the contaminant material is collected and the ultimate disposition of this material.

Instructions for Electrostatic Precipitator

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An electrostatic precipitator removes particulate matter from a gas stream by passing the gas stream through discharge electrodes and collection plates. Most particulates become charged and are collected on the plates. A variety of approaches can be used to dislodge and remove the collected particulates.

General Information

Plant Name Enter the plant name.

Plant ID This is the identification number assigned to the source by the District. If this application is for a new source for which an ID has not been assigned, leave this blank.

Equipment Description

Manufacturer Enter the name of the company that manufactures the precipitator equipment.

Model Enter the model number of the equipment to be installed.

Precipitator type Check the box representing the type of precipitator being applied for.

Airflow Enter the design airflow through the precipitator, and the nominal pressure drop across the unit. On the next line, enter the gas velocity through the unit (magnitude and units), the residence time (magnitude and units), and the removal efficiency. If the efficiency varies significantly as a function of particle size, attach information that describes this variation.

Contaminant Removal List the materials that are removed from the airstream by the precipitator. If a CAS registration number exists for the material list that as well. Finally, list the typical concentration of the contaminant in the exhaust gas stream.